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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/451,196      | 11/29/1999  | RADESH MANIAN        | 081862.P149         | 8729             |

7590 07/31/2002

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EXAMINER

ZIA, SYED

ART UNIT PAPER NUMBER

2155

DATE MAILED: 07/31/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/451,196

Applicant(s)

MANIAN ET AL.

Examiner

Syed Zia

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 November 1999.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)              | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> . | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Drawings***

1. The drawings filed on November 29, 1999 are objected and subject to correction of the informalities indicated on the attached "Notice of Draftsperson's Patent Drawing Review", PTO-948.

### ***Claim Objections***

2. Claims 7, 15, 23 and 29 are objected to because of the following informalities:  
Inconsistent abbreviation description for ATM. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Pei et al. (U. S. Patent 6,272,109).

4. Regarding claims 1, 9, 17 and 25 Pei teaches and describes a system, product and method that relates to techniques and devices for scheduling asynchronous transfer mode (ATM) traffic, for different bit rate services assigned to virtual circuit connections within a plurality of virtual path connections, for transmission over an ATM link, comprising:

- dividing a hardware schedule table into N logical schedule tables, the N logical schedule tables being separated by table delimiters; and assigning an identifier in a scheduling table, the scheduling table being one of the N logical schedule tables, the identifier corresponding to a connection in the network (col. 5 line 5 to col. 7 line 18).

5. Claims 2, 4, 10, 12, 18, 20 and 26 are rejected applied as above in rejecting claims 1, 9, 17 and 25. Furthermore, Pei *teaches*

- each of the table delimiters corresponds to at least one unused entry in the hardware schedule table (Fig. 9 and col. 17 line 7 to line 38);

- determining if a first entry requested by the network for the identifier is occupied; and assigning the identifier to a second entry if the first entry is occupied, the second entry being available for occupancy (col. 4 line 9 to line 41).

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6. Claims 3, 5, 11, 13, 14, 19, 21, 22 and 27 are rejected applied as above in rejecting claims 2, 4, 10, 12, 18, 20 and 26. Furthermore, Pei teaches and describes a system and method for transferring information through a communication medium and particularly, for scheduling the transmission of data packets across connections in a communication system, wherein:

- each of the N logical schedule tables corresponds to a class of service (col. 3 line 26 to line 45);

- assigning the identifier to the first entry if the first entry is available for occupancy (col. 5 line 57 to col. 6 line 7);

- assigning the identifier to a third entry if the second entry coincides with one of the table delimiters, the third entry being a next available entry found from a beginning of the scheduling table (col. 6 line 8 to line 19 and col. 18 line 15 to line 33);

- the scheduler assigns the identifier to a second entry if a first entry requested by the network for the identifier is occupied, the second entry being available for occupancy (col. 4 line 9 to line 41).

7. Claims 6, 15, 23, and 28 are rejected applied as above in rejecting 5, 14, 22 and 27. Furthermore, Pei teaches and describes a mechanism for traffic scheduling, comprising:

- assigning the identifier to a third entry if the second entry coincides with one of the table delimiters, the third entry being a next available entry found from a beginning of the scheduling table (col. 6 line 8 to line 19 and col. 18 line 15 to line 33);

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- the network is an asynchronous transfer mode (ATM) network (col. 3 line 20 to line 25).

8. Claims 7, 16, 24 and 29 are rejected applied as above in rejecting 6, 15, 23 and 28. Furthermore, Pei teaches and describes an ATM network and virtual circuit connection, wherein:

- the network is an asynchronous mode transfer (ATM) network (col. 3 line 20 to line 25);

- the identifier is a virtual channel identifier (col. 2 line 17 to line 39).

9. Claims 8 and 30 are rejected applied as above in rejecting 7 and 29. Furthermore, Pei teaches and describes:

- the identifier is a virtual channel identifier (col. 2 line 17 to line 39).

10. Claim 31 is rejected applied as above in rejecting 7 and 29. Furthermore, Pei teaches and describes an ATM processing device, comprising:

- the network processor is a segmentation and reassembly processor (Fig. 3 and col. 8 line 23 to line 50).

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*Conclusion*


11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U. S. Patents (6005866), (6377579), (6389019), (6396834).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 703-305-3881. The examiner can normally be reached on Monday - Friday 9:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-7240.

SZ  
July 28, 2002

  
AYAZ SHEIKH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100